

In the Claims:

Please cancel claims 1-15 and 19-23 as indicated below.

1. - 23. (Canceled)

24. (Previously presented) A seismic receiver for detecting seismic energy and transmitting digital data relating to the detected seismic energy to a data recorder, the receiver comprising:

a casing;

a seismic energy detector that detects the seismic energy and converts the detected seismic energy into an analog electrical signal;

an analog to digital converter, coupled to the seismic energy detector, that converts the analog electrical signal into the digital data;

a digital signal transmission circuitry, coupled to the analog to digital converter, that transmits the digital data to the data recorder; and

a test circuitry coupled to the seismic energy detector,

wherein the test circuitry transmits test signals to separately test the seismic energy detector, the analog to digital converter and the digital signal transmission circuitry, and wherein a response from the seismic energy detector to one or more of the test signals is used to determine a compensation factor for an orientation of the seismic receiver relative to the perpendicular; and

wherein the seismic energy detector, the digital transmission circuitry, the analog to digital convert and the test circuitry are housed within the casing.

25. (Previously presented) The seismic receiver of claim 24, wherein the test signal test enables the testing and the calibration of the seismic energy detector.

26. (Previously presented) The seismic receiver of the claim 24, wherein the test signal enables the testing of the verticality of the seismic receiver.